

USER MANUAL

Portable EV Charger

Models: 3.5kW / 7.4kW / 11kW / 22kW

(with LCD Display / Non-Wi-Fi Version)

1. Safety Precautions

WARNING

Please read all instructions carefully before using the product. Failure to follow the safety warnings and guidelines may result in electric shock, fire, serious injury, or damage to the vehicle.

- **Do not modify or repair:** Never attempt to disassemble, repair, or modify the charger components by yourself. Contact qualified service personnel for assistance.
- **Inspect before use:** Do not operate the charger if the enclosure, cable, or plug is cracked, frayed, broken, or shows any signs of damage.
- **Proper grounding:** Ensure that the power outlet used is correctly grounded, properly installed, and complies with local electrical standards and regulations.
- **Operating environment:** Do not submerge the smart control box in water. Avoid exposing the unit to severe weather conditions such as heavy downpours, blizzards, or direct lightning risks.
- **Keep away from children:** This device is not a toy and must be kept strictly out of reach of children.

2. Product Specifications

Specification	3.5kW Model	7.4kW Model	11kW Model	22kW Model
Input / Output Voltage	230V AC (1-Phase)	230V AC (1-Phase)	400V AC (3-Phase)	400V AC (3-Phase)
Maximum Current	16A	32A	16A	32A
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Charging Interface	Type 2 (IEC 62196-2)	Type 2 (IEC 62196-2)	Type 2 (IEC 62196-2)	Type 2 (IEC 62196-2)
IP Protection Rating	IP65	IP65	IP65	IP65

Specification	3.5kW Model	7.4kW Model	11kW Model	22kW Model
Operating Temp. Range	-30°C to +50°C	-30°C to +50°C	-30°C to +50°C	-30°C to +50°C
Compliance Marks	CE, RoHS	CE, RoHS	CE, RoHS	CE, RoHS

3. Product Overview

This portable EV charger is designed to offer a convenient, safe, and plug-and-play charging experience. The system is comprised of three primary sections:

- **Grid-Side Power Plug:** Schuko, CEE 3-pin, or CEE 5-pin depending on the maximum rated capacity.
- **Smart Control Box:** Features a built-in heavy-duty LCD screen to monitor real-time metrics.
- **Vehicle Connector:** Standard ergonomic Type 2 (IEC 62196-2) female charging gun.

LCD Display Features

The integrated display provides immediate, precise tracking of the current charging cycle, displaying:

- **Current Power (kW):** The real-time electrical output being delivered to the vehicle.
- **Voltage (V) & Amperage (A):** Active grid voltage and precise current draw monitoring.
- **Charged Energy (kWh):** Accumulative energy (kilowatt-hours) delivered during the active session.
- **Temperature (°C):** Continual thermal readout of the control box internal circuitry.
- **Status Indicators:** Real-time process sequence tracking (Ready / Charging / Fault / Complete).

4. Operating Instructions

How to Start Charging

1. **Connect to Power Grid:** Insert the power plug firmly into an appropriate wall receptacle or distribution socket. The LCD screen will initialize and display the **"Ready"** status.
2. **Adjust Amperage (If Applicable):** For models equipped with current selection capability, press the adjustment toggle on the control box *before* inserting the gun into the vehicle to cycle through current limits (e.g., 8A / 10A / 13A / 16A / 32A).
3. **Connect to Vehicle:** Open your Electric Vehicle's charging port and insert the Type 2 gun firmly until you hear a mechanical click, indicating a locked physical connection.
4. **Charging Initiation:** The charger automatically negotiates communication handshakes with the vehicle's onboard charger (OBC). Once successful, the display state changes to **"Charging"**.

How to Stop Charging

1. **Terminate Session via Vehicle:** Unlock the vehicle or stop charging through your car's central dashboard media screen/application.
2. **Disconnect Charging Gun:** Safely remove the Type 2 connector from the car inlet port.
3. **Disconnect Power Source:** Remove the power plug from the wall receptacle or grid outlet.
4. **Storage:** Re-apply the protective rubber cap over the Type 2 interface and coil the cable naturally without tightly binding or twisting it. Store in a cool, dry area.

5. Status & Troubleshooting Guide

The smart internal chip monitors for anomalies. If a protective trip occurs, the screen will indicate a specific code. Please check below for general resolutions:

- **Over / Under Voltage Protection:** The source grid voltage fluctuates outside acceptable limits. Wait until grid conditions normalize or inspect the primary breakers.
- **Over Current Protection:** The vehicle has drawn more current than configured. Unplug the system, perform a complete restart, and check vehicle configuration settings.
- **Over Temperature Protection:** The internal control box temperature has crossed safe operating limits. Move the module away from direct solar radiation or hot areas and allow it to cool down naturally.
- **Leakage Protection:** Active residual current detection safeguards. Immediately isolate the device and check for electrical integrity across the vehicle socket and power plug lines.

6. Environmental Protection & EU Compliance

This product fully complies with all legal directives and standards set forth by the European Union.

CE Mark

WEEE

CE Marking: Confirms alignment with EU health, safety, and environmental protection protocols.

WEEE Directive: This unit must not be disposed of with ordinary household trash. Please recycle responsibly through an authorized local collection center for electronic waste.